

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(21) International application number:</b> PCT/FR98/00875<br><br><b>(22) International filing date:</b> 30 April 1998 (30.04.98)<br><br><b>(30) Data relating to the priority:</b><br>97/05,608 30 April 1997 (30.04.97) FR<br>97/15,732 8 December 1997 (08.12.97) FR<br><br><b>(71) Applicant (for all designated States except US):</b><br>MERIEUX ORAVAX [FR/FR]; 58, avenue Leclerc,<br>F-69007 Lyon (FR).<br><br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (US only):</b> Bruno GUY [FR/FR];<br>15B, rue des Noyer, F-69005 Lyon (FR). Jean<br>HAENSLER [FR/FR]; "Les Bullandières" Bâtiment<br>B, 17, rue Piccandet, F-69290 Saint Genis les<br>Ollières (FR).<br><br><b>(74) Representative:</b> Marie-Pauline AYROLES; Pasteur<br>Mérieux Sérums & Vaccins, Industrial Property<br>Directorate, 58, avenue Leclerc, F-69007 Lyon (FR). |    | <b>(81) Designated states:</b> AL, AM, AT, AU, AZ, BA, BB, BG,<br>BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI,<br>GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,<br>LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,<br>MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,<br>TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO Patent<br>(GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian<br>Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),<br>European Patent (AT, BE, CH, CY, DE, DK, ES, FI,<br>FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI<br>Patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,<br>NE, SN, TD, TG).<br><br><b>Published</b><br>With the International Search Report.<br>Before expiry of the period provided for amending the<br>claims, will be republished if such amendments are<br>received. |
| As printed  |    |   |
| <b>(54) Title:</b> ANTI- <i>HELICOBACTER</i> VACCINE COMPOSITION COMPRISING A TH1 ADJUVANT  |    |   |
| <b>(54) Titre:</b> COMPOSITION VACCINALE ANTI- <i>HELICOBACTER</i> COMPRENANT UN ADJUVANT DE TYPE TH1   |    |   |
| <b>(57) Abstract</b>  |    |   |
| <p>The invention concerns the use of an immunogenic agent derived from <i>Helicobacter</i>, associated with an adjuvant such as QS-21, DC-chol or Bay R1005, for making a pharmaceutical composition designed to induce an immune response of the T helper 1 type (Th1), for preventing or treating <i>Helicobacter</i> infection in a mammal.</p>  |    |   |
| <b>(57) Abrégé</b>  |    |   |
| <p>L'invention a pour objet l'usage d'un agent immunogène dérivé d'<i>Helicobacter</i>, en association avec un adjuvant tel que le QS-21, le DC-chol ou le Bay R1005, dans la fabrication d'une composition pharmaceutique destinée à l'induction d'une réponse immune de type T helper 1 (Th1) à l'encontre d'<i>Helicobacter</i>, pour prévenir ou traiter une infection à <i>Helicobacter</i> chez un mammifère.</p>   |    |   |